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Communicable disease Assignment

300level

- *1. Communicable Diseases*
- *Definition*: Communicable diseases are illnesses caused by pathogens (bacteria, viruses, parasites, fungi) that can be transmitted from one person to another, either directly or indirectly.
- *Causative Agents*: Bacteria (e.g., TB, Cholera), Viruses (e.g., HIV, Influenza), Parasites (e.g., Malaria, Schistosomiasis), Fungi (e.g., Ringworm)
- *Modes of Transmission*:
 - Direct: Person-to-person contact, droplet transmission
 - Indirect: Contaminated food/water, vectors (mosquitoes, ticks), fomites
- *Methods of Prevention and Control*:
 - Vaccination, sanitation, hygiene, vector control, education, isolation/quarantine
- *2. Endemic, Epidemic, and Pandemic*
- *Endemic*: Constant presence of a disease in a population (e.g., Malaria in Nigeria)
- *Epidemic*: Sudden increase in disease cases (e.g., Cholera outbreak in a community)
- *Pandemic*: Global spread of a disease (e.g., COVID-19, Influenza A/H1N1)
- *3. Incidence and Prevalence*
- *Incidence*: Number of new cases in a population over a period (e.g., 100 new HIV cases in a year)
- *Prevalence*: Total number of cases (new and existing) in a population (e.g., 1000 HIV cases

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- *Importance*: Incidence helps identify outbreak sources; prevalence informs resource allocation and planning
- *4. Controlling Communicable Diseases*
- *Measures*:
 - Surveillance, contact tracing, vaccination, sanitation, hygiene, education, vector control
 - Isolation/quarantine, treatment, health promotion
- *5. Short Notes*
- *a. Epidemiological Triangle*: Agent-Host-Environment interaction leading to disease
- *b. Vehicle-borne Transmission*: Disease transmission through contaminated food, water, or other vehicles
- *c. Point Prevalence and Period Prevalence*:
 - Point Prevalence: Cases at a specific point in time
 - Period Prevalence: Cases over a defined period (e.g., annual prevalence)